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(54) Title: BUPROPION METABOLITES AND METHODS OF THEIR SYNTHESIS AND USE

(57) Abstract: Methods and compositions are disclosed which utilize metabolites of bupropion for treating disorders ameliorated by inhibition of neuronal monoamine reuptake. Such disorders include, but are not limited to, erectile dysfunction, affective disorders, cerebral function disorders, cigarette smoking, and incontinence. The invention further discloses methods of making optically pure bupropion metabolites.

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INTERNATIONAL SEARCH REPORT

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IPC(7) : A61K 31/5375, 133, 137; C07C 49/76, 82, 807; 317/14; C07D 265/32

US CL : 514/239.5, 653, 649; 544/173; 568/31, 336

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
STN**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	MUSSO et al. Synthesis and Evaluation of the Anticonvulsant Activity of a Series of 2-Amino-1-Phenyl-1-Propanols Derived from the Metabolites of the Antidepressant Bupropion. Bioorganic & Medicinal Chemistry Letters. 07 January 1997, Vol. 7, No. 1, pages 1-6, see entire document.	1-5, 20-25, 39-56
Y ---- A	KELLY et al. (2S 35, 5K)-2-(3,5-Difluorophenyl)-3,5-dimethyl-2-morpholinol: A Novel Antidepressant Agent and Selective Inhibitor of Norepinephrine Uptake. J. Med. Chem. 19 January 1996, Vol. 39, No. 2, pages 347-349, see entire document.	1-5, 13-19, 39-56 ----- 6-12, 20-38, 57



Further documents are listed in the continuation of Box C.



See patent family annex.

* *A* *E* *L* *O* *P*	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier document published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	*T* *X* *Y* *&*	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family
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